Amendment to the Abstract:

Please replace the abstract with the following replacement abstract:

A method of calculating broadband access server DHCP user's on-line time[[,]] includes ~~these~~ the steps of: (a) setting ~~the~~ an inner time, an outer time and a flow ~~traffic~~ threshold for said access server ~~calculating~~ to count user's data flow ~~traffic~~, ~~and~~ wherein the inner time is shorter than the outer time; (b) starting time charging to the users by instruction of the access server to the users sooner after the users access the access server and are authenticated successfully ~~user accesses the said access server, after authenticated successfully, the access server notifies starting to charge the user's online time~~; (c) establishing a circular link list to each user for recording data flow of the user in the access server ~~according to each user, said access server establishes a ring list to record data traffic~~; (d) defining a number of elements in the circular link list as a multiple of the outer time to the inner time in the access server ~~said access server sets the number of ring list elements as multiple of said outer time to said inner time~~; (e) detecting the data flow of the user according to the inner time in the access server, and recording the data flow as a content of a head pointer of the circular link list in turn, until a difference between data flow newly detected and the content rerecorded in the head pointer is not more than the flow threshold ~~said access server inspects the said user's data traffic according to inner time, fills it in content indicated by top element index of ring list, until current data traffic inspected and value recorded by top index are not more than said traffic threshold. The advantage of the invention is that timing is precise and error is small~~.